Earth Science

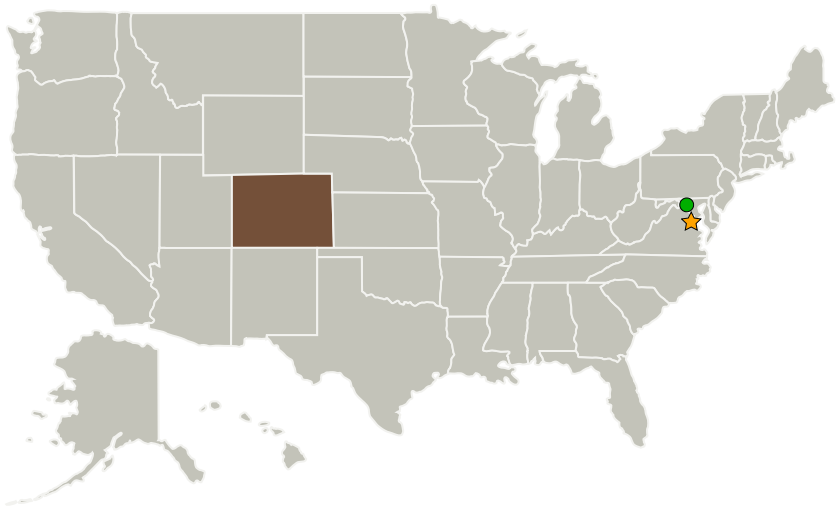
Green OAWL Airborne Demostrator (GrOAWL)

Completed Technology Project (2015 - 2017)

Project Introduction

Develop the Gr-OAWL receiver into a rugged airborne 532 nm wavelength aerosol Doppler wind lidar with two look angles from a single platform Perform high altitude aircraft test flights measuring line-of-sight (LOS) wind profiles from two looks over a series of atmospheric aerosol conditions Validate the airborne system performance using ground-based weather radiosondes

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★NASA Headquarters(HQ)	Lead Organization	NASA Center	Washington, District of Columbia
Cooperative Institute for Research in Environmental Sciences	Supporting Organization	Industry	
●Goddard Space Flight Center(GSFC)	Supporting Organization	NASA Center	Greenbelt, Maryland

Green OAWL Airborne Demostrator

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Organizational Responsibility

Responsible Mission Directorate:

Science Mission Directorate (SMD)

Lead Center / Facility:

NASA Headquarters (HQ)

Responsible Program:

Earth Science

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Primary U.S. Work Locations
Colorado

Project Management

Program Director:

George J Komar

Technology Areas

Primary:

- TX08 Sensors and Instruments
  - TX08.1 Remote Sensing Instruments/Sensors
    - TX08.1.5 Lasers

Target Destination

Earth